RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
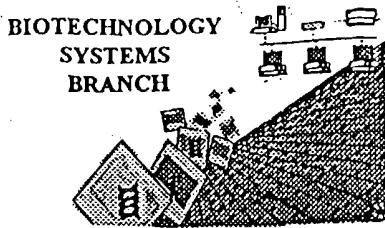BRANCH

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10|808,052

Source: EFGOP

Date Processed by STIC: 10/14/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u>
<u>VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS
    http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
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Revised 05/17/04

IFWO

```
RAW SEQUENCE LISTING                    DATE: 10/14/2004
PATENT APPLICATION:  US/10/808,052      TIME: 11:37:53

Input Set : A:\18989-033US.txt
Output Set: N:\CRF4\10142004\J808052.raw

 3 <110> APPLICANT: Blumberg
 5 <120> TITLE OF INVENTION: Methods of Inhibiting Inflammation
 7 <130> FILE REFERENCE: 18989-033
 9 <140> CURRENT APPLICATION NUMBER: 10/808,052
10 <141> CURRENT FILING DATE: 2004-03-24
12 <150> PRIOR APPLICATION NUMBER: 60/457,048
13 <151> PRIOR FILING DATE: 2003-03-24
15 <160> NUMBER OF SEQ ID NOS: 16
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 23
21 <212> TYPE: RNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <221> NAME/KEY: misc_feature
26 <222> LOCATION: (22)
27 <223> OTHER INFORMATION: Wherein n is dT
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <222> LOCATION: (23)
32 <223> OTHER INFORMATION: Wherein n is dT
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence:chemically
36       synthesized siRNA
38 <400> SEQUENCE: 1
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W--> `39 aagcucugga acuaccaacg ann`   23

```
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 23
44 <212> TYPE: RNA
45 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Description of Artificial Sequence:chemically
49       synthesized siRNA
51 <400> SEQUENCE: 2
```

W--> `52 ucguuggguag uuccagagcu unn`   23

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55 <210> SEQ ID NO: 3
56 <211> LENGTH: 3392
57 <212> TYPE: DNA
58 <213> ORGANISM: Homo sapiens
60 <400> SEQUENCE: 3
61 actccctcac tggctgccat tgaaagagtc cacttctcag tgactcctag ctgggcactg 60
62 gatgcagttg aggattgctg gtcaatatga ttcttcttgc tgtgcttttt ctctgcttca 120
63 tttcctcata ttcagcttct gttaaaggtc acacaactgg tctctcatta aataatgacc 180
```

Handwritten annotations:
- IF this is an RNA/DNA sequence, please use type DNA and explain in section <220>/<223> (pg. 6)
- No "t"s are allowed in a RNA sequence. (pg. 1)
- Invalid base
- Does Not Comply — Corrected Diskette Needed
- pls explain "N" locations.
- See error explanation on page 7.
- The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

```
 64 ggctgtacaa gctcacgtac tccactgaag ttcttcttga tcggggcaaa ggaaaactgc 240
 65 aagacagcgt gggctaccgc atttcctcca acgtggatgt ggccttacta tggaggaatc 300
 66 ctgatggtga tgatgaccag ttgatccaaa taacgatgaa ggatgtaaat gttgaaaatg 360
 67 tgaatcagca gagaggagag aagagcatct tcaaaggaaa aagcccatct aaaataatgg 420
 68 gaaaggaaaa cttggaagct ctgcaaagac ctacgctcct tcatctaatc catggaaagg 480
 69 tcaaagagtt ctactcatat caaaatgagg cagtggccat agaaaatatc aagagaggtc 540
 70 tggctagcct atttcagaca cagttaagct ctggaaccac caatgaggta gatatctctg 600
 71 gaaattgtaa agtgacctac caggctcatc aagacaaagt gatcaaaatt aaggccttgg 660
 72 attcatgcaa aatagcgagg tctggattta cgaccccaaa tcaggtcttg ggtgtcagtt 720
 73 caaaagctac atctgtcacc acctataaga tagaagacag ctttgttata gctgtgcttg 780
 74 ctgaagaaac acacaatttt ggactgaatt tcctacaaac cattaagggg aaaatagtat 840
 75 cgaagcagaa attagagctg aagacaaccg aagcaggccc aagattgatg tctggaaagc 900
 76 aggctgcagc cataatcaaa gcagttgatt caaagtacac ggccattccc attgtggggc 960
 77 aggtcttcca gagccactgt aaaggatgtc cttctctctc ggagctctgg cggtccacca 1020
 78 ggaaatacct gcagcctgac aaccttttcca aggctgaggc tgtcagaaac ttcctggcct 1080
 79 tcattcagca cctcaggact gcgaagaaag aagagatcct tcaaatacta aagatggaaa 1140
 80 ataaggaagt attacctcag ctggtggatg ctgtcacctc tgctcagacc tcagactcat 1200
 81 tagaagccat tttggacttt ttggatttca aaagtgacag cagcattatc ctccaggaga 1260
 82 ggtttctcta tgcctgtgga tttgcttctc atcccaatga agaactcctg agagccctca 1320
 83 ttagtaagtt caaaggttct attggtagca gtgacatcag agaaactgtt atgatcatca 1380
 84 ctgggacact tgtcagaaag ttgtgtcaga atgaaggctg caaactcaaa gcagtagtgg 1440
 85 aagctaagaa gttaatcctg ggaggacttg aaaaagcaga gaaaaaagag gacaccagga 1500
 86 tgtatctgct ggctttgaag aatgccctgc ttccagaagg catcccaagt cttctgaagt 1560
 87 atgcagaagc aggagaaggg cccatcagcc acctggctac cactgctctc cagagatatg 1620
 88 atctcccttt cataactgat gaggtgaaga agaccttaaa cagaatatac caccaaaacc 1680
 89 gtaaagttca tgaaaagact gtgcgcactg ctgcagctgc tatcatttta aataacaatc 1740
 90 catcctacat ggacgtcaag aacatcctgc tgtctattgg ggagcttccc caagaaatga 1800
 91 ataaatacat gctcgccatt gttcaagaca tcctacgttt ggaaatgcct gcaagcaaaa 1860
 92 ttgtccgtcg agttctgaag gaaatggtcg ctcacaatta tgaccgtttc tccaggagtg 1920
 93 gatcttcttc tgcctacact ggctacatag aacgtagtcc ccgttcggca tctacttaca 1980
 94 gcctagacat tctctactcg ggttctggca ttctaaggag aagtaacctg aacatctttc 2040
 95 agtacattgg gaaggctggt cttcacggta gccaggtggt tattgaagcc caaggactgg 2100
 96 aagccttaat cgcagccacc cctgacgagg gggaggagaa ccttgactcc tatgctggta 2160
 97 tgtcagccat cctctttgat gttcagctca gacctgtcac cttttttcaac ggatacagtg 2220
 98 atttgatgtc caaaatgctg tcagcatctg gcgaccctat cagtgtggtg aaaggactta 2280
 99 ttctgctaat agatcattct caggaacttc agttacaatc tggactaaaa gccaatatag 2340
100 aggtccaggg tggtctagct attgatattt caggtgcaat ggagtttagc ttgtggtatc 2400
101 gtgagtctaa aacccgagtg aaaaatagggg tgactgtggt aataaccact gacatcacag 2460
102 tggactcctc ttttgtgaaa gctggcctgg aaaccagtac agaaacagaa gcaggcttgg 2520
103 agtttatctc cacagtgcag ttttctcagt acccattctt agtttgcatg cagatggaca 2580
104 aggatgaagc tccattcagg caatttgaga aaaagtacga aaggctgtcc acaggcagag 2640
105 gttatgtctc tcagaaaaga aaagaaagcg tattagcagg atgtgaattc ccgctccatc 2700
106 aagagaactc agagatgtgc aaagtggtgt ttgcccctca gccggatagt acttccagcg 2760
107 gatggttttg aaactgacct gtgatatttt acttgaattt gtctccccga aagggacaca 2820
108 atgtggcatg actaagtact tgctctctga gagcacagcg tttacatatt tacctgtatt 2880
109 taagattttt gtaaaaagct acaaaaaact gcagtttgat caaatttggg tatatgcagt 2940
110 atgctaccca cagcgtcatt ttgaatcatc atgtgacgct ttcaacaacg ttcttagttt 3000
111 acttatacct ctctcaaatc tcatttggta cagtcagaat agttattctc taagaggaaa 3060
112 ctagtgtttg ttaaaaacaa aaataaaaac aaaaccacac aaggagaacc caattttgtt 3120
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RAW SEQUENCE LISTING   DATE: 10/14/2004
PATENT APPLICATION: US/10/808,052   TIME: 11:37:53

Input Set : A:\18989-033US.txt
Output Set: N:\CRF4\10142004\J808052.raw

```
113 tcaacaattt ttgatcaatg tatatgaagc tcttgatagg acttccttaa gcatgacggg 3180
114 aaaaccaaac acgttcccta atcaggaaaa aaaaaaaaaa aaaaagtaa gacacaaaca 3240
115 aaccattttt ttctcttttt ttggagttgg gggcccaggg agaagggaca aggcttttaa 3300
116 aagacttgtt agccaacttc aagaattaat atttatgtct ctgttattgt tagttttaag 3360
117 ccttaaggta gaaggcacat agaaataaca tc                                 3392
120 <210> SEQ ID NO: 4
121 <211> LENGTH: 894
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 4
126 Met Ile Leu Leu Ala Val Leu Phe Leu Cys Phe Ile Ser Ser Tyr Ser
127  1               5                  10                  15
129 Ala Ser Val Lys Gly His Thr Thr Gly Leu Ser Leu Asn Asn Asp Arg
130              20                  25                  30
132 Leu Tyr Lys Leu Thr Tyr Ser Thr Glu Val Leu Leu Asp Arg Gly Lys
133          35                  40                  45
135 Gly Lys Leu Gln Asp Ser Val Gly Tyr Arg Ile Ser Ser Asn Val Asp
136      50                  55                  60
138 Val Ala Leu Leu Trp Arg Asn Pro Asp Gly Asp Asp Asp Gln Leu Ile
139 65                  70                  75                  80
141 Gln Ile Thr Met Lys Asp Val Asn Val Glu Asn Val Asn Gln Gln Arg
142              85                  90                  95
144 Gly Glu Lys Ser Ile Phe Lys Gly Lys Ser Pro Ser Lys Ile Met Gly
145             100                 105                 110
147 Lys Glu Asn Leu Glu Ala Leu Gln Arg Pro Thr Leu Leu His Leu Ile
148         115                 120                 125
150 His Gly Lys Val Lys Glu Phe Tyr Ser Tyr Gln Asn Glu Ala Val Ala
151      130                 135                 140
153 Ile Glu Asn Ile Lys Arg Gly Leu Ala Ser Leu Phe Gln Thr Gln Leu
154 145                 150                 155                 160
156 Ser Ser Gly Thr Thr Asn Glu Val Asp Ile Ser Gly Asn Cys Lys Val
157             165                 170                 175
159 Thr Tyr Gln Ala His Gln Asp Lys Val Ile Lys Ile Lys Ala Leu Asp
160             180                 185                 190
162 Ser Cys Lys Ile Ala Arg Ser Gly Phe Thr Thr Pro Asn Gln Val Leu
163         195                 200                 205
165 Gly Val Ser Ser Lys Ala Thr Ser Val Thr Thr Tyr Lys Ile Glu Asp
166      210                 215                 220
168 Ser Phe Val Ile Ala Val Leu Ala Glu Glu Thr His Asn Phe Gly Leu
169 225                 230                 235                 240
171 Asn Phe Leu Gln Thr Ile Lys Gly Lys Ile Val Ser Lys Gln Lys Leu
172             245                 250                 255
174 Glu Leu Lys Thr Thr Glu Ala Gly Pro Arg Leu Met Ser Gly Lys Gln
175             260                 265                 270
177 Ala Ala Ala Ile Ile Lys Ala Val Asp Ser Lys Tyr Thr Ala Ile Pro
178         275                 280                 285
180 Ile Val Gly Gln Val Phe Gln Ser His Cys Lys Gly Cys Pro Ser Leu
181      290                 295                 300
183 Ser Glu Leu Trp Arg Ser Thr Arg Lys Tyr Leu Gln Pro Asp Asn Leu
```

```
184 305                   310                   315                   320
186 Ser Lys Ala Glu Ala Val Arg Asn Phe Leu Ala Phe Ile Gln His Leu
187                   325                   330                   335
189 Arg Thr Ala Lys Lys Glu Glu Ile Leu Gln Ile Leu Lys Met Glu Asn
190                   340                   345                   350
192 Lys Glu Val Leu Pro Gln Leu Val Asp Ala Val Thr Ser Ala Gln Thr
193             355                   360                   365
195 Ser Asp Ser Leu Glu Ala Ile Leu Asp Phe Leu Asp Phe Lys Ser Asp
196         370                   375                   380
198 Ser Ser Ile Ile Leu Gln Glu Arg Phe Leu Tyr Ala Cys Gly Phe Ala
199 385                   390                   395                   400
201 Ser His Pro Asn Glu Glu Leu Leu Arg Ala Leu Ile Ser Lys Phe Lys
202             405                   410                   415
204 Gly Ser Ile Gly Ser Ser Asp Ile Arg Glu Thr Val Met Ile Ile Thr
205             420                   425                   430
207 Gly Thr Leu Val Arg Lys Leu Cys Gln Asn Glu Gly Cys Lys Leu Lys
208         435                   440                   445
210 Ala Val Val Glu Ala Lys Lys Leu Ile Leu Gly Gly Leu Glu Lys Ala
211     450                   455                   460
213 Glu Lys Lys Glu Asp Thr Arg Met Tyr Leu Leu Ala Leu Lys Asn Ala
214 465                   470                   475                   480
216 Leu Leu Pro Glu Gly Ile Pro Ser Leu Leu Lys Tyr Ala Glu Ala Gly
217             485                   490                   495
219 Glu Gly Pro Ile Ser His Leu Ala Thr Thr Ala Leu Gln Arg Tyr Asp
220             500                   505                   510
222 Leu Pro Phe Ile Thr Asp Glu Val Lys Lys Thr Leu Asn Arg Ile Tyr
223         515                   520                   525
225 His Gln Asn Arg Lys Val His Glu Lys Thr Val Arg Thr Ala Ala Ala
226         530                   535                   540
228 Ala Ile Ile Leu Asn Asn Asn Pro Ser Tyr Met Asp Val Lys Asn Ile
229 545                   550                   555                   560
231 Leu Leu Ser Ile Gly Glu Leu Pro Gln Glu Met Asn Lys Tyr Met Leu
232             565                   570                   575
234 Ala Ile Val Gln Asp Ile Leu Arg Leu Glu Met Pro Ala Ser Lys Ile
235             580                   585                   590
237 Val Arg Arg Val Leu Lys Glu Met Val Ala His Asn Tyr Asp Arg Phe
238         595                   600                   605
240 Ser Arg Ser Gly Ser Ser Ser Ala Tyr Thr Gly Tyr Ile Glu Arg Ser
241         610                   615                   620
243 Pro Arg Ser Ala Ser Thr Tyr Ser Leu Asp Ile Leu Tyr Ser Gly Ser
244 625                   630                   635                   640
246 Gly Ile Leu Arg Arg Ser Asn Leu Asn Ile Phe Gln Tyr Ile Gly Lys
247             645                   650                   655
249 Ala Gly Leu His Gly Ser Gln Val Val Ile Glu Ala Gln Gly Leu Glu
250             660                   665                   670
252 Ala Leu Ile Ala Ala Thr Pro Asp Glu Gly Glu Glu Asn Leu Asp Ser
253         675                   680                   685
255 Tyr Ala Gly Met Ser Ala Ile Leu Phe Asp Val Gln Leu Arg Pro Val
256         690                   695                   700
```

```
258 Thr Phe Phe Asn Gly Tyr Ser Asp Leu Met Ser Lys Met Leu Ser Ala
259 705                 710                 715                 720
261 Ser Gly Asp Pro Ile Ser Val Val Lys Gly Leu Ile Leu Leu Ile Asp
262                 725                 730                 735
264 His Ser Gln Glu Leu Gln Leu Gln Ser Gly Leu Lys Ala Asn Ile Glu
265                 740                 745                 750
267 Val Gln Gly Gly Leu Ala Ile Asp Ile Ser Gly Ala Met Glu Phe Ser
268         755                 760                 765
270 Leu Trp Tyr Arg Glu Ser Lys Thr Arg Val Lys Asn Arg Val Thr Val
271     770                 775                 780
273 Val Ile Thr Thr Asp Ile Thr Val Asp Ser Ser Phe Val Lys Ala Gly
274 785                 790                 795                 800
276 Leu Glu Thr Ser Thr Glu Thr Glu Ala Gly Leu Glu Phe Ile Ser Thr
277                 805                 810                 815
279 Val Gln Phe Ser Gln Tyr Pro Phe Leu Val Cys Met Gln Met Asp Lys
280                 820                 825                 830
282 Asp Glu Ala Pro Phe Arg Gln Phe Glu Lys Lys Tyr Glu Arg Leu Ser
283         835                 840                 845
285 Thr Gly Arg Gly Tyr Val Ser Gln Lys Arg Lys Glu Ser Val Leu Ala
286     850                 855                 860
288 Gly Cys Glu Phe Pro Leu His Gln Glu Asn Ser Glu Met Cys Lys Val
289 865                 870                 875                 880
291 Val Phe Ala Pro Gln Pro Asp Ser Thr Ser Ser Gly Trp Phe
292                 885                 890
295 <210> SEQ ID NO: 5
296 <211> LENGTH: 2878
297 <212> TYPE: DNA
298 <213> ORGANISM: Mus musculus
300 <400> SEQUENCE: 5
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302 tcctcctact ctgcttccgt taaaggtcac acaactggcc tctcattaaa taatgagcgg 120
303 ctatacaagc tcacgtactc cactgaagtg tttcttgatg ggggcaaagg aaaaccgcaa 180
304 gacagcgtgg gctacaaaat ctcatctgat gtggacgttg tgttactgtg gaggaatcct 240
305 gatggtgatg atgatcaagt gatccaagtc acgataacag ctgttaacgt tgaaaatgcg 300
306 ggtcaacaga gaggcgagaa gagcatcttc cagggcaaaa gtacacctaa gatcataggg 360
307 aaggacaacc tggaggctct gcagagaccc atgcttcttc atctggtccg ggggaaggtc 420
308 aaggagttct actcctatga aaacgagcca gtgggcatag aaaatctcaa gagaggcttg 480
309 gctagcttat ccagatgca gctaagctct ggaactacca acgaggtaga tatctctggg 540
310 gattgtaaag tgacctacca ggcccaacaa gacaaagtgg tcaaaattaa ggctctggat 600
311 acatgcaaaa ttgagcggtc tggatttaca acggcaaacc aggtgctggg cgtcagttca 660
312 aaagccacat ctgtcactac ctacaagata gaggacagct ttgtcaccgc tgtgcttgca 720
313 gaagagacca gggctttgc cttgaacttc aacaaacca tagcaggaaa aatagtgtca 780
314 aagcagaaat tggagctgaa gacaactgaa gccggcccaa ggatgatccc cggggaagcaa 840
315 gtggcaggtg taattaaagc agttgattcc aaatacaaag ccattcccat tgtgggacag 900
316 gtcctcgagc gtgtctgcaa aggatgccct tctctggcgg agcactggaa gtccatcaga 960
317 aagaacctgg agcctgaaaa cctgtccaag gccgaggctg tccagagctt cctggccttc 1020
318 atccagcacc tccggacttc gaggagagaa gagatcctcc agattctgaa ggcagagaag 1080
319 aaagaagtgc tccctcagct ggtggatgcc gtcacctctg ctcagactcc agactcgcta 1140
320 gaagccatcc tggacttttt ggatttcaaa agtgacagca gtatcatact ccaggaaagg 1200
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/14/2004
PATENT APPLICATION: US/10/808,052   TIME: 11:37:54

Input Set : A:\18989-033US.txt
Output Set: N:\CRF4\10142004\J808052.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 22,23
Seq#:2; N Pos. 22,23
Seq#:11; Xaa Pos. 14,16,27,31,36,43,47,50,52,53,70,77,81,95,121,123,130,171
Seq#:11; Xaa Pos. 177,180,197,200,203,204,226,233,241,243,248,261
Seq#:12; Xaa Pos. 57,67,68,97,99,102,105,106,116,122,149,152,157,163,165
Seq#:12; Xaa Pos. 173,176,207,214,216,223,229,239,240,251,253,254,257,268
Seq#:12; Xaa Pos. 270,275,287
Seq#:13; Xaa Pos. 6,16,17,46,48,51,54,55,63,69,81,84,89,95,97,105,108,133
Seq#:13; Xaa Pos. 140,142,149,155,162,163,174,176,177,180,191,193,198,202
Seq#:14; Xaa Pos. 35,41,52,57,58,59,70,72,77,81,82,97,104,108,109,118,126
Seq#:14; Xaa Pos. 128,131,149,157,166,186,189,195,200,210,219,222,240,252
Seq#:14; Xaa Pos. 253,261,273,274,297
Seq#:15; Xaa Pos. 57,67,68,97,99,102,105,106,116,122,149,152,157,163,165
Seq#:15; Xaa Pos. 173,176,207,214,216,223,229,239,240,251,253,254,257,268
Seq#:15; Xaa Pos. 270,275,287
Seq#:16; Xaa Pos. 43,49,60,65,66,67,78,80,85,89,90,105,112,116,117,126,134
Seq#:16; Xaa Pos. 136,139,157,165,174,194,197,203,208,227,236,239,257,269
Seq#:16; Xaa Pos. 270,278,290,291,292,314

VARIABLE LOCATION SUMMARY   DATE: 10/14/2004
PATENT APPLICATION: US/10/808,052   TIME: 11:37:54

    Input Set : A:\18989-033US.txt
    Output Set: N:\CRF4\10142004\J808052.raw

Error Explanation: ✓

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:1; N Pos. 22,23
Seq#:2; N Pos. 22,23
Seq#:11; Xaa Pos. 14,16,27,31,36,43,47,50,52,53,70,77,81,95,121,123,130,171
Seq#:11; Xaa Pos. 177,180,197,200,203,204,226,233,241,243,248,261
Seq#:12; Xaa Pos. 57,67,68,97,99,102,105,106,116,122,149,152,157,163,165
Seq#:12; Xaa Pos. 173,176,207,214,216,223,229,239,240,251,253,254,257,268
Seq#:12; Xaa Pos. 270,275,287
Seq#:13; Xaa Pos. 6,16,17,46,48,51,54,55,63,69,81,84,89,95,97,105,108,133
Seq#:13; Xaa Pos. 140,142,149,155,162,163,174,176,177,180,191,193,198,202
Seq#:14; Xaa Pos. 35,41,52,57,58,59,70,72,77,81,82,97,104,108,109,118,126
Seq#:14; Xaa Pos. 128,131,149,157,166,186,189,195,200,210,219,222,240,252
Seq#:14; Xaa Pos. 253,261,273,274,297
Seq#:15; Xaa Pos. 57,67,68,97,99,102,105,106,116,122,149,152,157,163,165
Seq#:15; Xaa Pos. 173,176,207,214,216,223,229,239,240,251,253,254,257,268
Seq#:15; Xaa Pos. 270,275,287
Seq#:16; Xaa Pos. 43,49,60,65,66,67,78,80,85,89,90,105,112,116,117,126,134
Seq#:16; Xaa Pos. 136,139,157,165,174,194,197,203,208,227,236,239,257,269
Seq#:16; Xaa Pos. 270,278,290,291,292,314

```
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:52 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:2
L:52 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:2
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:48
M:341 Repeated in SeqNo=12
L:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:32
M:341 Repeated in SeqNo=14
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:48
M:341 Repeated in SeqNo=15
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:32
M:341 Repeated in SeqNo=16
```